

## AMENDMENTS TO THE CLAIMS

Claim 14 is currently amended, claims 16-17 are canceled, and claims 30-31 are new. A detailed listing is presented of all claims that are or were in the application, irrespective of whether the claim(s) remain under examination. The text of all claims presently under examination is presented below, and all claims are provided with an appropriate defined status identifier.

### Detailed and Complete Listing of Claims

1-13. (Canceled).

14. (Currently Amended) A method for the preparation of an emulsion formulation, comprising:

- (a) introducing into a plant cell a chimeric nucleic acid sequence comprising
  - (1) a first regulatory nucleic acid sequence, ~~capable of regulating that~~ regulates transcription in said cell, operatively linked to
  - (2) a coding nucleic acid sequence that codes for a recombinant fusion polypeptide, said coding nucleic sequence comprising
    - (i) a first nucleic acid sequence, encoding ~~a sufficient portion of an oil body protein~~ at least the central domain of an oil body protein to provide targeting to an oil body, linked in reading frame to
    - (ii) a second nucleic acid sequence, encoding a thioredoxin or thioredoxin reductase, operatively linked to
  - (3) a second regulatory nucleic acid sequence ~~capable of terminating~~ transcription that regulates termination of transcription in said plant cell, such that said recombinant fusion polypeptide comprises an oil body protein and thioredoxin or thioredoxin reductase;

wherein said plant cell is selected from the group consisting of an almond cell, an anise cell, an avocado cell, a beach nut cell, a borage cell, a Brazil nut cell, a candle

nut cell, a cashew nut cell, a castor cell, a coconut cell, a coriander cell, a cotton cell, a crambe cell, a croton cell, a Cuphea cell, a Euphorbia cell, a Dimorphoteca cell, a false flax cell, a fennel cell, a groundnut cell, a hazelnut cell, a hemp cell, a honesty plant cell, a jojoba cell, a kapok fruit cell, a kukui nut cell, a Lesquerella cell, a linseed cell, a macademia nut cell, a maize cell, a meadow foam cell, a mustard cell, a oil palm cell, a oiticia cell, a paw paw cell, a pecan cell, a perilla cell, a physic nut cell, pilinut cell, a pine nut cell, a pistachio cell, a poppy seed cell, a rapeseed cell, a safflower cell, a sesame seed cell, a soybean cell, a squash cell, a sal tree cell, a Stokes a aster cell, a sunflower cell, a tukuma cell, a tung nut cell, and a veronia cell;

(b) growing said plant cell to express said recombinant fusion polypeptide in a progeny plant cell comprising oil bodies ~~under conditions to permit expression of said recombinant fusion polypeptide in a progeny cell comprising oil bodies;~~

(c) isolating said oil bodies from said progeny plant cell expressing said recombinant fusion polypeptide ~~comprising said recombinant fusion polypeptide comprising an oil body protein and thioredoxin or thioredoxin reductase;~~

(d) washing said oil bodies to obtain a washed oil body preparation comprised of substantially intact oil bodies that comprise said recombinant fusion polypeptide; and

(e) formulating said washed oil body preparation comprising substantially intact oil bodies into an emulsion.

15. (Previously Presented) A method according to claim 14, wherein said oil body protein is an oleosin or a caleosin.

16-17. (Canceled).

18. (Previously Presented) A method according to claim 14, wherein the oil bodies are obtained from plant seeds.

19-28. (Canceled).

29. (Previously Presented) A method according to claim 14, wherein said thioredoxin and thioredoxin reductase in said emulsion chemically reduces a target.

30. (New) A method for the preparation of an emulsion formulation, comprising:

(a) providing oil bodies from a plant cell comprising a recombinant nucleic acid encoding a thioredoxin or thioredoxin reductase,

wherein said plant cell is selected from the group consisting of an almond cell, an anise cell, an avocado cell, a beach nut cell, a borage cell, a Brazil nut cell, a candle nut cell, a cashew nut cell, a castor cell, a coconut cell, a coriander cell, a cotton cell, a crambe cell, a croton cell, a Cuphea cell, a Euphorbia cell, a Dimorphoteca cell, a false flax cell, a fennel cell, a groundnut cell, a hazelnut cell, a hemp cell, a honesty plant cell, a jojoba cell, a kapok fruit cell, a kukui nut cell, a Lesquerella cell, a linseed cell, a macademia nut cell, a maize cell, a meadow foam cell, a mustard cell, a oil palm cell, a oiticia cell, a paw paw cell, a pecan cell, a perilla cell, a physic nut cell, pilinut cell, a pine nut cell, a pistachio cell, a poppy seed cell, a rapeseed cell, a safflower cell, a sesame seed cell, a soybean cell, a squash cell, a sal tree cell, a Stokes a aster cell, a sunflower cell, a tukuma cell, a tung nut cell, and a veronia cell;

(b) washing said oil bodies to obtain a washed oil body preparation comprised of substantially intact oil bodies; and

(c) formulating said washed oil body preparation comprising substantially intact oil bodies into an emulsion.

31. (New) A method for the preparation of an emulsion formulation, comprising:

(a) obtaining a washed oil body preparation comprising substantially intact oil bodies obtained from a plant cell comprising a recombinant nucleic acid encoding a thioredoxin or thioredoxin reductase,

wherein said plant cell is selected from the group consisting of an almond cell, an anise cell, an avocado cell, a beach nut cell, a borage cell, a Brazil nut cell, a candle nut cell, a cashew nut cell, a castor cell, a coconut cell, a coriander cell, a cotton cell, a crambe cell, a croton cell, a Cuphea cell, a Euphorbia cell, a Dimorphoteca cell, a false flax cell, a fennel cell, a groundnut cell, a hazelnut cell, a hemp cell, a honesty plant cell, a jojoba cell, a kapok fruit cell, a kukui nut cell, a Lesquerella cell, a linseed

cell, a macademia nut cell, a maize cell, a meadow foam cell, a mustard cell, a oil palm cell, a oiticia cell, a paw paw cell, a pecan cell, a perilla cell, a physic nut cell, pilinut cell, a pine nut cell, a pistachio cell, a poppy seed cell, a rapeseed cell, a safflower cell, a sesame seed cell, a soybean cell, a squash cell, a sal tree cell, a Stokes a aster cell, a sunflower cell, a tukuma cell, a tung nut cell, and a veronia cell; and

(b) formulating said washed oil body preparation comprising substantially intact oil bodies into an emulsion.